Appendix A: DTD And Examples

I. Request DTD

```
<!ELEMENT CustomerID (#PCDATA)>
<!ELEMENT Password (#PCDATA)>
<!ELEMENT Customer (CustomerID, Password)>

<!ELEMENT TID (#PCDATA)>
<!ELEMENT CTID (#PCDATA)>
<!ELEMENT BillingTypeCC EMPTY>
<!ELEMENT BillingTypeME EMPTY>
<!ELEMENT CCExpMonth (#PCDATA)>
<!ELEMENT CCExpYear (#PCDATA)>
<!ELEMENT CCNumber (#PCDATA)>
<!ELEMENT CCType (#PCDATA)>
<!ELEMENT Email (#PCDATA)>
<!ELEMENT FirstName (#PCDATA)>
<!ELEMENT LastName (#PCDATA)>
<!ELEMENT Phone (#PCDATA)>
<!ELEMENT Street (#PCDATA)>
<!ELEMENT City (#PCDATA)>
<!ELEMENT State (#PCDATA)>
<!ELEMENT Zip (#PCDATA)>
<!ELEMENT Country (#PCDATA)>
<!ELEMENT CleansingLevelLow EMPTY>
<!ELEMENT CleansingLevelMedium EMPTY>
<!ELEMENT CleansingLevelHigh EMPTY>
<!ELEMENT CreditCard ((CleansingLevelLow, CCNumber, CCType, CCExpMonth,
CCExpYear, FirstName, LastName, Phone?, Email?, Street?, City?, State?, Zip?, Country?) |
(CleansingLevelHigh, CCNumber, CCType, CCExpMonth, CCExpYear, FirstName,
LastName, Phone, Email, Street, City, State, Zip, Country))>

<!ELEMENT FormatBMP EMPTY>
<!ELEMENT FormatRLE EMPTY>
<!ELEMENT Height (#PCDATA)>
<!ELEMENT Width (#PCDATA)>
<!ELEMENT Bitmap ((FormatBMP | FormatRLE), Height, Width)>
<!ELEMENT PlainTextData EMPTY>
<!ELEMENT IBIPData EMPTY>
<!ELEMENT Amount (#PCDATA)>
<!ELEMENT PostageType (#PCDATA)>
<!ELEMENT Indicia (PostageType, Amount, ((IBIPData | Bitmap | PlainTextData) |
(IBIPData, Bitmap) | (IBIPData, PlainTextData) | (Bitmap, PlainTextData) | (IBIPData,
Bitmap, PlainTextData)))>
<!ATTLIST Indicia id CDATA #REQUIRED>
```

```
<!ELEMENT StandardTransaction (CTID, ((BillingTypeCC, CreditCard) | BillingTypeME),
Indicia+)>
<!ELEMENT LookupTransaction ((CTID | TID), Indicia+)>
<!ELEMENT RegetTransaction ((CTID | TID), IBIPData?, Bitmap?, PlainTextData?)>

<!ELEMENT Request (Customer, (StandardTransaction | LookupTransaction |
RegetTransaction))>
<!ATTLIST Request version CDATA #FIXED "1.0">

<!--    End of DTD  -->
```

II. Response DTD

```
<!ELEMENT Code (#PCDATA)>
<!ELEMENT Description (#PCDATA)>
<!ELEMENT SubCode (#PCDATA)>
<!ELEMENT ReturnCode ((Code | (Code, Description, SubCode)))>

<!ELEMENT VersionNo (#PCDATA)>
<!ELEMENT AlgorithmID (#PCDATA)>
<!ELEMENT CertificateSerialNo (#PCDATA)>
<!ELEMENT ManufacturerID (#PCDATA)>
<!ELEMENT ModelID (#PCDATA)>
<!ELEMENT SerialNo (#PCDATA)>
<!ELEMENT AscendingRegister (#PCDATA)>
<!ELEMENT Postage (#PCDATA)>
<!ELEMENT Date (#PCDATA)>
<!ELEMENT DescendingRegister (#PCDATA)>
<!ELEMENT RateCategory (#PCDATA)>
<!ELEMENT DigitalSignature (#PCDATA)>
<!ELEMENT PlainTextData (VersionNo, AlgorithmID, CertificateSerialNo,
ManufacturerID, ModelID, SerialNo, AscendingRegister, Postage, Date,
DescendingRegister, RateCategory, DigitalSignature)>

<!ELEMENT IBIPData (#PCDATA)>
<!ELEMENT BitmapData (#PCDATA)>
<!ELEMENT TID (#PCDATA)>
<!ELEMENT Indicia (TID, ((IBIPData | BitmapData | PlainTextData) | (IBIPData,
BitmapData) | (IBIPData, PlainTextData) | (BitmapData, PlainTextData) | (IBIPData,
BitmapData, PlainTextData)))>
<!ATTLIST Indicia id CDATA #REQUIRED >

<!ELEMENT Response (ReturnCode, (Indicia+ | Indicia? ))>
<!ATTLIST Response        version CDATA #FIXED "1.0">

<!--    End of DTD  -->
```

III. Request (StandardTransaction)

```
<?xml version="1.0" encoding="UTF-8" standalone="no"?>
<!DOCTYPE Request SYSTEM "Request.dtd">
<Request>

        <Customer>
                <CustomerID>USPS</CustomerID>
                <Password>USPSPassword</Password>
        </Customer>

        <StandardTransaction>
                <CTID>34903428234890234809</CTID>
                <BillingTypeCC/>
                <CreditCard>
                        <CleansingLevelLow/>
                        <CCNumber>4111111111111111</CCNumber>
                        <CCType>Visa</CCType>
                        <CCExpMonth>10</CCExpMonth>
                        <CCExpYear>2001</CCExpYear>
                        <FirstName>478E</FirstName>
                        <LastName>478E</LastName>
                        <Email>none@none.com</Email>
                </CreditCard>

                <Indicia id="1">
                        <PostageType>GXG</PostageType>
                        <Amount>0.33</Amount>
                        <IBIPData/>
                        <Bitmap>
                                <FormatBMP/>
                                <Height>400</Height>
                                <Width>400</Width>
                        </Bitmap>
                </Indicia>

                <Indicia id="2">
                        <PostageType>GXG</PostageType>
                        <Amount>1.0</Amount>
                        <IBIPData/>
                        <PlainTextData/>
                </Indicia>

        </StandardTransaction>
</Request>
```

IV. Request (LookupTransaction)

```
<?xml version="1.0" encoding="UTF-8" standalone="no"?>
<!DOCTYPE Request SYSTEM "Request.dtd">
<Request>

        <Customer>
                <CustomerID>USPS</CustomerID>
                <Password>Password</Password>
        </Customer>

        <LookupTransaction>
                <TID>324439342342908432 9234324</TID>

                <Indicia id="1">
                        <PostageType>GXG</PostageType>
                        <Amount>99.99</Amount>
                        <IBIPData/>
                        <Bitmap>
                                <FormatRLE></FormatRLE>
                                <Height>600</Height>
                                <Width>300</Width>
                        </Bitmap>
                        <PlainTextData/>
                </Indicia>

        </LookupTransaction>
</Request>
```
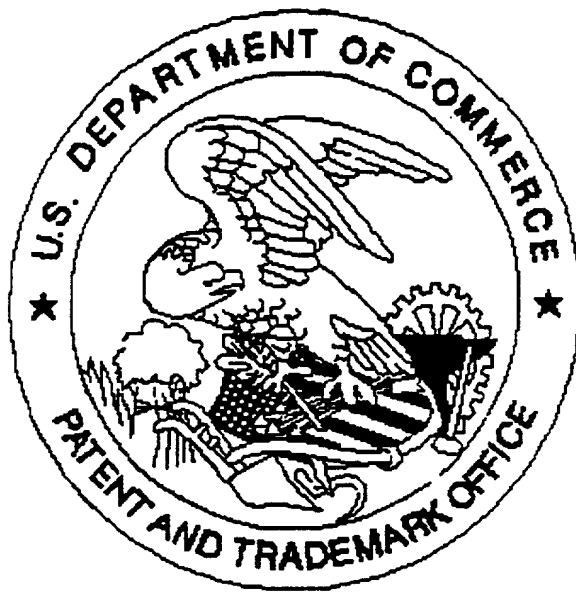
V. Request (RegetTransaction)

```
<?xml version="1.0" encoding="UTF-8" standalone="no"?>
<!DOCTYPE Request SYSTEM "Request.dtd">
<Request>

        <Customer>
                <CustomerID>USPS</CustomerID>
                <Password>Password</Password>
        </Customer>

        <RegetTransaction>
                <CTID>324439342342908432 9234324</CTID>
                <IBIPData/>
                <PlainTextData/>
        </RegetTransaction>
</Request>
```

4/6

VI. Response OK

```xml
<?xml version="1.0" encoding="UTF-8" standalone="no"?>
<!-- edited with XML Spy v3.5 NT (http://www.xmlspy.com) by Glk (None) -->
<!DOCTYPE Response SYSTEM "Response.dtd">
<Response>
      <ReturnCode>
            <Code>0</Code>
      </ReturnCode>

      <Indicia id="1">
            <TID>3443432342342342234243234334879879678</TID>
            <IBIPData>fdfjhjhbererer904578756jk54bbjk56y5h5hkj5k45gjh</IBIPData>
            <BitmapData>
                VOvwP+jz0D/y/wQG2urxIOjzWUAaBgAAGQEtADEPAABVGuvw//Lw
                LOvwHOjzoPr0Bw/r8Pbx6vFK5/QEOuvwROvwAQBUMQHo84Dy8UU
                PVw/y8eD7LQHq8Wjq5/QP6/BU6/ACAFSFGOvwPN/8jAGMAeb1Aa6
                RAgAAAyoEBevwBqrr8Afr8Ajr8Anr8Aqq6/AL6/AM6/AN6/AO6uvwk+
                P4L8ACVQEB+QG6Ad8BAgBiAQDV/g0SARMWAhMWA2JPAAD+h
                bgE6vGJABP/MHoUrkfheoSlP7YDQOb1vwECOBMQQJECSBYWFTI
                QIRdrEgNXFq4WEwRiAhUUBYEWBiqBFgeBFgilEYa8BOrxAVUAFL
                IK7BgNHoIaKxefFCQUFa4Sh8AE6v
            </BitmapData>
      </Indicia>

      <Indicia id="2">
            <TID>3443432342342342234243234334879879678</TID>

      <IBIPData>fdfjhjhberwe4578756jk54bbjk56y5h5hkj5k4fgg6787566gjh</IBIPData>
            <PlainTextData>
                <VersionNo>1</VersionNo>
                <AlgorithmID>11</AlgorithmID>
                <CertificateSerialNo>23342</CertificateSerialNo>
                <ManufacturerID>4353445</ManufacturerID>
                <ModelID>655656</ModelID>
                <SerialNo>54655545</SerialNo>
                <AscendingRegister>654</AscendingRegister>
                <Postage>11</Postage>
                <Date>2000-11-12 01:08:42</Date>
                <DescendingRegister>125</DescendingRegister>
                <RateCategory>15</RateCategory>
                <DigitalSignature>r54k54ko597opkoknkl7njkjn65kjnk6765ughjhgj</
                DigitalSignature>
            </PlainTextData>
      </Indicia>
</Response>
```

VII. Response (Error)

```xml
<?xml version="1.0" encoding="UTF-8" standalone="no"?>
<!DOCTYPE Response SYSTEM "Response.dtd">
<Response>
        <ReturnCode>
                <Code>1106</Code>
                <Description>Bank rejection, unknown reason</Description>
                <SubCode>Decline due to incorrect CVVrequest_id =
979879879878</SubCode>
        </ReturnCode>
</Response>
```

6/6

United States Patent & Trademark Office
Office of Initial Patent Examination -- Scanning Division

Application deficiencies found during scanning:

☐ Page(s)_____ of_____ were not present
for scanning.   **(Document title)**

☐ Page(s)_____ of_____were not present
for scanning.   **(Document title)**

☑ *Scanned copy is best available.* Drawings